

Non responsive based on revised scope

Certificate of Analysis

Final Report

Laboratory Order ID 19J0229

Client Name:

Date Received: October 4, 2019 15:00

Date Issued: October 9, 2019 16:43

Project Number: [none]

Submitted To:

Purchase Order: 64073

Client Site ID Shiloh Church Rd Site

Enclosed are the results of analyses for samples received by the laboratory on 10/04/2019 15:00. If you have any question concerning this report, please feel free to contact the laboratory.

Sincerely,

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Technical Director

End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

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Certificate of Analysis

Final Report

Client Name [Redacted] Date Issued 10/9/2019 16:43

Submitted To [Redacted] Project Number [none]

Client Site I.D.: Shiloh Church Rd Site Purchase Order 64073

ANALYTICAL REPORT FOR SAMPLES

Laboratory Order ID 19J0229

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W-Grab	19J0229-01	Soil	10/04/2019 12:00	10/04/2019 15:00
E-Grab	19J0229-02	Soil	10/04/2019 12:00	10/04/2019 15:00

PCB results have been calculated based on dry weight.

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Purchase Order: 64073

Laboratory Order ID: 19J0229

Analytical Results

Sample I.D. W-Grab

Laboratory Sample ID: 19J0229-01

Grab Date/Time 10/04/2019 12:00

Field Residual Cl:

Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Organochlorine Pesticides and PCBs by GC/ECD									
PCB as Aroclor 1016	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57	
PCB as Aroclor 1221	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57	
PCB as Aroclor 1232	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57	
PCB as Aroclor 1242	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57	
PCB as Aroclor 1248	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57	
PCB as Aroclor 1254	01RE1	SW8082A	152 mg/kg dry		55.6	500	10/07/19 09:45	10/09/19 11:34	
PCB as Aroclor 1260	01	SW8082A	<0.556 mg/kg dry		0.556	5	10/07/19 09:45	10/07/19 21:57	
Surr: DCB	01	SW8082A	200 %	DS	30-105		10/07/19 09:45	10/07/19 21:57	
Surr: TCMX	01	SW8082A	75.0 %		30-105		10/07/19 09:45	10/07/19 21:57	
Wet Chemistry Analysis									
Percent Solids	01	SM18 2540G	89.3 %		0.10	1	10/08/19 14:20	10/08/19 14:20	

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Purchase Order: 64073

Laboratory Order ID: 19J0229

Analytical Results

Sample I.D. E-Grab

Laboratory Sample ID: 19J0229-02

Grab Date/Time 10/04/2019 12:00

Field Residual Cl:

Field pH:

Parameter	Samp ID	Method	Result	Qual	Reporting Limit	D.F.	Sample Prep Date/Time	Analysis Date/Time	Analyst
Organochlorine Pesticides and PCBs by GC/ECD									
PCB as Aroclor 1016	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
PCB as Aroclor 1221	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
PCB as Aroclor 1232	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
PCB as Aroclor 1242	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
PCB as Aroclor 1248	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
PCB as Aroclor 1254	02RE1	SW8082A	324 mg/kg dry		112	1000	10/07/19 09:45	10/09/19 12:59	
PCB as Aroclor 1260	02	SW8082A	<0.559 mg/kg dry		0.559	5	10/07/19 09:45	10/07/19 22:16	
Surr: DCB	02	SW8082A	200 %	DS	30-105		10/07/19 09:45	10/07/19 22:16	
Surr: TCMX	02	SW8082A	100 %		30-105		10/07/19 09:45	10/07/19 22:16	
Wet Chemistry Analysis									
Percent Solids	02	SM18 2540G	88.9 %		0.10	1	10/08/19 14:20	10/08/19 14:20	

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Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Wet Chemistry Analysis		Preparation Method:	No Prep Wet Chem		
19J0229-01	10.0 g / 10.0 mL	SM18 2540G	BCJ0276	SCJ0247	
19J0229-02	10.0 g / 10.0 mL	SM18 2540G	BCJ0276	SCJ0247	
Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Organochlorine Pesticides and PCBs by GC/ECD		Preparation Method:	SW3550B		
19J0229-01	30.2 g / 5.00 mL	SW8082A	BCJ0217	SCJ0239	AI90153
19J0229-01RE1	30.2 g / 5.00 mL	SW8082A	BCJ0217	SCJ0285	AI90099
19J0229-02	30.2 g / 5.00 mL	SW8082A	BCJ0217	SCJ0239	AI90153
19J0229-02RE1	30.2 g / 5.00 mL	SW8082A	BCJ0217	SCJ0285	AI90099

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Organochlorine Pesticides and PCBs by GC/ECD - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BCJ0217 - SW3550B

Blank (BCJ0217-BLK1)

Prepared & Analyzed: 10/07/2019

PCB as Aroclor 1016	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1221	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1232	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1242	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1248	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1254	<0.100 mg/kg wet	0.100	mg/kg wet							
PCB as Aroclor 1260	<0.100 mg/kg wet	0.100	mg/kg wet							
Surr: DCB	0.0415		mg/kg wet	0.0332		125	30-105			S
Surr: TCMX	0.0233		mg/kg wet	0.0332		70.0	30-105			

LCS (BCJ0217-BS2)

Prepared & Analyzed: 10/07/2019

PCB as Aroclor 1016	0.146 mg/kg wet	0.100	mg/kg wet	0.164	mg/kg wet	89.0	60-140			
PCB as Aroclor 1260	0.167 mg/kg wet	0.100	mg/kg wet	0.164	mg/kg wet	102	60-140			
Surr: DCB	0.0393		mg/kg wet	0.0328	mg/kg wet	120	30-105			S
Surr: TCMX	0.0213		mg/kg wet	0.0328	mg/kg wet	65.0	30-105			

Matrix Spike (BCJ0217-MS2)

Source: 19J0184-02

Prepared & Analyzed: 10/07/2019

PCB as Aroclor 1016	0.189 mg/kg dry	0.111	mg/kg dry	0.185	<0.111 mg/kg dry	102	60-140			
PCB as Aroclor 1260	0.202 mg/kg dry	0.111	mg/kg dry	0.185	<0.111 mg/kg dry	109	60-140			
Surr: DCB	0.0426		mg/kg dry	0.0371	mg/kg dry	115	30-105			S
Surr: TCMX	0.0315		mg/kg dry	0.0371	mg/kg dry	85.0	30-105			

Matrix Spike Dup (BCJ0217-MSD2)

Source: 19J0184-02

Prepared & Analyzed: 10/07/2019

PCB as Aroclor 1016	0.189 mg/kg dry	0.112	mg/kg dry	0.187	<0.112 mg/kg dry	101	60-140	0.00322	20	
PCB as Aroclor 1260	0.208 mg/kg dry	0.112	mg/kg dry	0.187	<0.112 mg/kg dry	111	60-140	2.80	20	
Surr: DCB	0.0431		mg/kg dry	0.0374	mg/kg dry	115	30-105			S
Surr: TCMX	0.0300		mg/kg dry	0.0374	mg/kg dry	80.0	30-105			

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Wet Chemistry Analysis - Quality Control

Air Water & Soil Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch BCJ0276 - No Prep Wet Chem

Blank (BCJ0276-BLK1)

Prepared & Analyzed 10/08/2019

Percent Solids 100 % 0.10 %

Duplicate (BCJ0276-DUP1)

Source: 19J0229-02

Prepared & Analyzed: 10/08/2019

Percent Solids 88.5 % 0.10 % 88.9 % 0.385 20

Duplicate (BCJ0276-DUP2)

Source: 19J0276-01

Prepared & Analyzed: 10/08/2019

Percent Solids 86.1 % 0.10 % 84.6 % 1.74 20

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[none]

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Certified Analyses included in this Report

Analyte	Certifications
SW8082A in Solids	
PCB as Aroclor 1016	VELAP,NC
PCB as Aroclor 1221	VELAP,NC
PCB as Aroclor 1232	VELAP,NC
PCB as Aroclor 1242	VELAP,NC
PCB as Aroclor 1248	VELAP,NC
PCB as Aroclor 1254	VELAP,NC
PCB as Aroclor 1260	VELAP,NC

Code	Description	Lab Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2019
NC	North Carolina DENR	495	12/31/2019
VELAP	NELAC-Virginia Certificate #10503	460021	06/14/2020
WVDEP	West Virginia DEP	350	11/30/2019

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Summary of Data Qualifiers

DS Surrogate concentration reflects a dilution factor.

S Surrogate recovery was outside acceptance criteria

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

D.F. Dilution Factor. Please also see the Preparation Factor in the Analysis Summary section.

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library .
A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

PCBs, Total Total PCBs are defined as the sum of detected Aroclors 1016, 1221, 1232, 1248, 1254, 1260, 1262, and 1268.

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Chain of Custody
Effective: Nov 15, 2018

CHAIN OF CUSTODY

PAGE 1 OF 1

COMPANY: [Redacted]		INVOICE TO: [Redacted]		PROJECT NAME/Quote #: [Redacted]	
CONTACT: [Redacted]		INVOICE CO: [Redacted]		SITE NAME: Shiloh Church Rd Site	
ADDRESS: [Redacted]		INVOICE AD: [Redacted]		PROJECT NUMBER: [Redacted]	
PHONE #: [Redacted]		INVOICE PH: [Redacted]		O. #: 64073	
FAX #: [Redacted]		EMAIL: [Redacted]		Retreatment Program: [Redacted]	
Is sample for compliance reporting? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		Regulatory State: [Redacted]		Is sample from a chlorinated supply? YES <input type="checkbox"/> NO <input type="checkbox"/>	
PWS I.D. #: [Redacted]		SAMPLER NAME (PRINT): [Redacted]		SAMPLER SIGNATURE: [Redacted]	
Turn Around Time: Circle 10 5 Days or 3 Day(s)		Matrix Codes: WW=Waste Water/Storm Water GW=Ground Water DW=Drinking Water S=Soil/Solids OR=Organic A=Air WP=Wipe OT=Other		COMMENTS	
CLIENT SAMPLE I.D.		ANALYSIS / (PRESERVATIVE)		Preservative Codes: N=Nitric Acid C=Hydrochloric Acid S=Sulfuric Acid H=Sodium Hydroxide A=Ascorbic Acid Z=Zinc Acetate T=Sodium Thiosulfate M=Methanol	
Grab		Composite		Field Filtered (Dissolved Metals)	
Composite Start Date		Composite Start Time		Grab Date or Composite Stop Date	
Grab Time or Composite Stop Time		Time Preserved		Matrix (See Codes)	
Number of Containers		PCB (total)			
1) W-Grab		X		10/4/19 12:00	
2) E-Grab		X		1 1 5 1 X	
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
Non responsive based on revised scope		Non responsive based on revised scope		QC Data Package	
DATE / TIME		DATE / TIME		LAB USE ONLY Therm ID: 271	
10/4/19 1500		10/4/19 1500		Custody Seals used and intact? (Y/N)	
RELINQUISHED:		RECEIVED:		COOLER TEMP 1.3 °C	
DATE / TIME		DATE / TIME		Received on ice? (Y/N)	
RELINQUISHED:		RECEIVED:		Non responsive based on revised scope	
DATE / TIME		DATE / TIME		Ready: 10/04/2019	

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Sample Conditions Checklist

Samples Received at:

1.30°C

How were samples received?

Walk In

Were Custody Seals used? If so, were they received intact?

No

Are the custody papers filled out completely and correctly?

Yes

Do all bottle labels agree with custody papers?

Yes

Is the temperature blank or representative sample within acceptable limits or received on ice, and recently taken?

Yes

Are all samples within holding time for requested laboratory tests?

Yes

Is a sufficient amount of sample provided to perform the tests included?

Yes

Are all samples in appropriate containers for the analyses requested?

Yes

Were volatile organic containers received?

No

Are all volatile organic and TOX containers free of headspace?

NA

Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.

NA

Are all samples received appropriately preserved? Note that metals containers do not require field preservation but lab preservation may delay analysis.

Yes